

THE UNIVERD STATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Pioneer Hi-Bred International, Inc.

THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS. A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, R CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR ENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'26R31'

In Testimonn Murrers, I have hereunto set my hand and caused the seal of the Hant Pariety Protection Office to be affixed at the City of Washington, D.C. this tenth day of September, in the year two thousand and four.

Allesti

Benze

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Agriculturo

CAPACITY OR TITLE

DATE

CAPACITY OR TITLE

Wheat Research Director

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22, CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

19A. Exhibit A. Origin and Breeding History of Pioneer Wheat Cultivar XW02M: 26R31

MHH 8/16/18

Pioneer® experimental cultivar XW02M, a soft red winter wheat (Triticum aestivum L.) was developed by Pioneer Hi-Bred Int'l., Inc.. XW02M was derived from the three parent cross:

WEE052A1/Coker 9835//2684

The cultivar, WEE052A1 was a Pioneer line derived from the cross: 2550*3/AMIGO. The detailed parentage of XW02M is:

2550*3/AMIGO //Coker 9835/3/2684

The single cross WEE052A1/Coker 9835 was made in the 1992 spring greenhouse cycle and was designated ABP1328. During the 1992 fall greenhouse cycle the F_1 , ABP1328, was crossed with 2684 and the final cross designated A930460. The subsequent breeding history of XW02M is described below.

:	<u>Year</u>	Generation	
	1992	Final cross	
	1993	F ₁	F ₁ grown in transplant nursery at Windfall IN.
	1993-94	F ₂	Bulk populations grown at St. Matthews, SC and Rowland, NC. Individual spike selections made at both locations.
	1994-95	F ₃	Headrows from F ₂ selections grown at St. Matthews, SC and Rowland, NC. Selected rows cut and threshed individually.
	1995-96	F ₄	A 3 row X 3-meter observation plot was planted at St. Matthews, SC and Rowland, NC. A meter section of the center row was harvested from each selected plot and threshed in bulk.
	1996-97	F ₅	A seven row X 3-meter plot was planted at St. Matthews, SC and Rowland, NC. Fifty spikes were harvested from each selected plot and threshed individually.
	1997-98	F ₆	Twenty headrows of each F_5 selection were grown at St. Matthews, SC and Rowland, NC. Selected rows were cut and threshed individually. This selection was made at St. Matthews.
	1998-99	F ₇ .	Preliminary yield testing of an F_5 selection from an F_6 headrow. This selection designated A930460D1.
	1999-200	0 F ₈	Advanced yield testing of A930460D1. 200 individual spikes were harvested from a small bulk increase.

2000-01	F ₉	Elite yield testing of A930460D1. 100 purification headrows planted, offtype rows destroyed prior to maturity. The remaining rows were individually cut and threshed. Two spikes were taken from each harvested row.
2001-02	F ₁₀	Elite yield testing continued of A930460D1. Seed from purification headrows was planted in individual progeny plots which surrounded 200 headrows. Offtype plots and headrows were destroyed prior to harvest. Equal numbers of spikes were harvested from remaining progeny plots for a total of 1000 spikes. Progeny plots harvested in bulk, which constitutes Breeder Seed. Bulk seed, headrow bulks, and spikes were turned over to Pioneer's Parent Wheat Seed Group.
2002-03	F ₁₁	Elite yield testing continued, designated as YW02M. Seed increase continues by Pioneer Parent Wheat Seed Group.
2003-04	F ₁₂	Elite yield testing continued, designated as XW02M. Seed increase continues by Pioneer Parent Wheat Seed Group.

Decision to release XW02M will be made in August, 2004 at which time a commercial code will be assigned.

The cultivar XW02M was bred and selected for any and all of the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.

XW02M has been shown to be uniform and stable since the 7th generation, or for the last 5 generations. XW02M has shown no variants other than what would normally be expected due to environment.

19B. Exhibit B. Statement of Distinctness

'26R31

116/2004

-XW02M is most similar to Pioneer ® variety 26R24 but with the following distinguishing characteristics:

- 1. Stem anthocyanin of XW02M is ABSENT, while that of 26R24 is PRESENT.
- 2. The head shape of XW02M is STRAP, while that of 26R24 is TAPERING.
- 3. The seed phenol reaction of XW02M is LIGHT BROWN, while that of 26R24 is DARK BROWN.

REPRODUCE LOCALLY, Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY

·		WHEAT (Trincu	m spp.)				
NAME OF APPLICANT(S)				FOR OFFICIAL USE	ONLY	-	
Pioneer Hi-Bred Inter	national, Inc.			PVPO ZYMBERO	And	172	
ADDRESS (Street and No. or RD No.,				- W W	TV	<i>) 1 / 4</i> ₃	
Crop Genetics Resea Wheat Research	rch & Development			VARIETY NAME	12/ 0	, 201	MAH
3850 N. 100 E.	•				26 R	-	8।16/20
Windfall, IN 46076-93	389			TEMPORARY OR EX	XPERIMENTA XW02M	AL DESIGNATION	
Place a zero in the first box (e.g	RUCTIONS CAREFULLY: Plag. 0 9 9 or 0 9) when a parative data should be determing that system used: Munsell Comments of the co	number is either 99 or less or 9 or from varieties entered in the s	or less respectively. Data same trial. Royal Horticu SSU CS	for quantitative plutural Society or a	ant characte ny recognize	ers should be based color standard	may be used
1. KIND:							
1	1=Common	2=Durum	3=Club	4=	Other (SPECIFY)	:
2. VERNALIZATION	٧:						
2	1=Spring	2=Winter	3=Other (SP)	ECIFY) :			-
3. COLEOPTILE AN	THOCYANIN:						
2	1=Absent	2=Present				·	
4. JUVENILE PLANT	Г GROWTH:	***					
2	1=Prostrate	2=Semi-erect	3=Erect				
5. PLANT COLOR (I	ooot stage):						
2	1 = Yellow-Green	2 = Green	3 = Blue-Gree	en		,	
6. FLAG LEAF (boot	stage):						
1	1 = Erect	2 = Recurved	2	1 = Not Tv	visted	2 = Twist	ed
7. EAR EMERGENC	Ε:						
* 0.5	Number of Days Earli	er Than26R24	4				
*	Number of Days Later	· Than	·				

8.	ANTHER	COLOR

1 = Yellow

2 = Purple

9. PLANT HEIGHT (from soil to top of head, excluding awns):

-		

cm Taller Than

cm Shorter Than _____

26R24

* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial

10. STEM:

A. ANTHOCYANIN

1= Absent

2=Present

D. INTERNODE (SPECIFY NUMBER)

1= Hollow

2=Semi-solid

3=Solid

B. WAXY BLOOM

1=Absent

2=Present

E. PEDUNCLE

1=Absent

2=Present

C. HAIRINESS (last internode of rachis)

1=Absent

2=Present

cm Length

11. HEAD (at Maturity):

A. DENSITY

1=Lax 2

2=Middense

3= Dense

C. CURVATURE

1 = Erect

2 = Inclined

3 = Recurved

B. SHAPE

1 = Tapering

2= Strap

3 = Clavate

4 = Other (SPECIFY):

D. AWNEDNESS

1 = Awnless3 = Awnletted 2 = Apically Awnletted

4 = Awned

12. GLUMES (at Maturity):

A. COLOR

1 = White1

2 = Tan

3 = Other (SPECIFY) : ___

C. BEAK

1 = Obtuse

2 = Acute

3 =Acuminate

B. SHOULDER

1 = Wanting

2 = Oblique

3 = Rounded

4 = Square

5 = Elevated6 = Apiculate D. LENGTH

2

1 = Short

2 = Medium

(ca. 7mm)

(ca. 8mm)

3 = Long (ca. 9mm)

12	CLUMES	(at Maturity)	Continued
14.	CLUMES	LAL IYIALUI ILY	i Commune

Е.	WII	TH

1 = Narrow (ca. 3mm)3

2 = Medium (ca. 3.5mm)

3 = Wide (ca. 4mm)

13. SEED:

A. SHAPE

1 = Ovate 2 = Oval 3 = Elliptical

C. BRUSH

1=Short

2=Medium

3≃Long

1 = Not Collared

2 = Collared

B. CHEEK

1=Rounded 2=Angular D. CREASE

1 = Width 60% or less of Kernel

2 = Width 80% or less of Kernel

3 = Width Nearly as Wide as Kernel

1 = Depth 20% or less of Kernel

2 = Depth 35% or less of Kernel

3 = Depth 50% or less of Kernel

G. PHENOL REACTION (see instructions):

E. Color

14. DISEASE:

2= Amber 1=White 3 = Red4= OTHER (Specify)

1 = Ivory

2 = Fawn

4=Tolerant)

3 = Light Brown

3=Intermediate;

4 = Dark Brown

5 = Black

F. TEXTURE

1=Hard

2=Soft

1=Susceptible;

2=Resistant;

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

- Stem Rust (Puccinia graminis f. sp. tritici) 0
- Leaf Rust (Puccinia recondita f. sp. tritici) 2 Field races
- Stripe Rust (Puccinia striiformis) 1 Field races

(0=Not Tested;

- Loose Smut (Ustilago tritici)
- Tan Spot (Pyrenophora tritici-repentis) 3
- Flag Smut (Urocystis agropyri)
- Field races Halo Spot (Selenophoma donacis) 0
- Common Bunt (Tilletia tritici or T. laevis)
- Septoria nodorum (Glume Blotch) 3 Field races
- Dwarf Bunt (Tilletia controversa)
- Septoria avenae (Speckled Leaf Disease) 0
- Karnal Bunt (Tilletia indica)
- Septoria tritici (Speckled Leaf Blotch) 3
- Powdery Mildew (Erysiphe graminis f. sp. tritici) 2 Field races

Scab (Fusarium spp.)

"Snow Molds"

Field races

14. Disease (Continued) (0=Not Tested; 1=Susceptible; 3=Intermediate; 2=Resistant; PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED "Black Point" (Kernel Smudge) Common Root Rot (Fusarium, Cochliobolus and 0 0 Bipolaris spp.) Barley Yellow Dwarf Virus (BYDV) Rhizoctonia Root Rot (Rhizoctonia solani) Soilborne Mosaic Virus (SBMV) Black Chaff (Xanthomonas campestris pv. translucens) Field races Wheat Yellow (Spindle Streak) Mosaic Virus Bacterial Leaf Blight (Pseudomonas syringae pv. 0 Field races syringae) Wheat Streak Mosaic Virus (WSMV) Other (SPECIFY) 15. INSECT: (0=Not Tested: 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant) PLEASE SPECIFY BIOTYPE (where needed) Hessian Fly (Mayetiola destructor) Other (SPECIFY) 2 Biotype E

Other (SPECIFY)

Other (SPECIFY)

Other (SPECIFY)

Other (SPECIFY)

0 Aphids Other (SPECIFY)

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS

Stem Sawfly (Cephus spp.)

Cereal Leaf Beetle (Oulema melanopa)

Russian Aphid (Diuraphis noxia

Greenbug (Schizaphis graminum)

19D. Exhibit D. Additional Description of the Variety

1. Yield and Agronomic information.

126 R31

8/16/2004

Preliminary yield testing of XW02M began in the 1998-99 growing season and wide scale testing has been conducted from the 1999-2000 growing season to the present. It has shown adaptation to the soft red winter wheat growing regions of the southeastern and mid-southern U.S., approximately south of the Ohio river. (Table 1).

2. Information on Milling and Baking Qualities.

XW02M has demonstrated acceptable soft winter wheat milling and baking qualities, similar to other varieties in the region (Table 2).

26R31

Table 1. Paired comparisons of XW62Nf in the Mid-south and Southeast regions during the period 2001-2003.

Variety	Grain	Grain Test		Heading	Straw	Leaf	Leaf	Powdery	Cosh	Stripe	CCMIV	CDAAT.
•	Yield	Weight	Height	Date	Lodging	Rust	Blight	Mildew	Scall	Rust	SSIVIV	SDIVIV
Mid-south	bu/ac lb/bu	lb/bu	cm	After Jan 1	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@
XW02M	74.5	55.3	78.7	115.0		8.0	6.0		6.3	3.8		4.0
26R24	72.2	54.2	94.2	115.9	6.8	9.7	3.7		4.2	5.5	7.0	3.3
Years	7	2	2	2		2	2		2			2
Reps.	39	41	22	18		10	11		5	7	7	4
Prob.	0.360	0.001	0.000	0.230		0.178	0.005		0.039	0.199		0.205

26R61 63.5 55.3	7.7	112.5	0	× 1-	v	8 9	4	0 9	3.0
63.5	}		2	•	3	0.5	3:))	2.5
c	95.3	114.1	8.5	8.5	6.3	4.0	8.5	5.5	3.5
7	2	2	-		<u></u>	_	-	-	1
20		10	2	9	9	8	7	7	2
0.036	0.000	0.049		0.057	0.038	0.272			

Southeast

XW02M	7.07	55.8	71.4	108.5	9.9	7.9	4.3	8.5
26R24	65.0	55.0	86.1	108.6	4.8	6.7	3.5	6.7
Years	3	3	2	2	2	2	-	2
Reps.	59	26	13	17	15	∞	m	12
Prob.	0.094	0.274	0.000	0.932	0.033	0.093	0.656	0.38
XW02M	69.7	55.8	71.4	108.5	9.9	7.9	4.3	8.5
26R61	67.9	57.6	87.6	108.6	6.1	7.9	5.0	5.9
Years	3	3	2	2	2	2	-	2

@ Scale of 1-9 where 9= excellent or resistant, 1= poor or susceptible

8 0.860

15 0.533

0.910

13 0.000

26 0.002

30 0.071

Reps. Prob. SSMV = Wheat Spindle Streak Mosaic Virus SBMV = Soil-borne Mosaic Virus

Mid-south data collected at locations in Arkansas, Kentucky, Missouri, Illinois, Indiana and Tennessee. Southeast data collected at locations in Virginia, North Carolina, South Carolina and Georgia.

Table 2. Average Soft wheat quality data, 2000-2003.

Variety	Flour Yield	Break Flour Yield	Flour Protein	AWRC	Lactic Acid	Cookie Diameter	
	%	%	%	%	%	cm	
XW0ZM	72.1	40.8	9.3	57.1	96.5	17.6	_
Years(reps)	2(3)	2(3)	2(3)	2(3)	1(3)	1(2)	
							_
26R24	68.8	43.9	10.7	57.1	108.5	18.2	
Years(reps)	4(19)	4(19)	4(19)	4(19)	1(2)	3(8)	
-							_
26R61	71.1	42.1	10.3	54.3	116.5	18.5	_
Years(reps)	4(14)	4(14)	4(14)	4(14)	1(2)	3(8)	
							,
2684	71.3	42.8	10.4	53.2	91.5	18.8	_
Years(reps)	4(19)	4(19)	4(19)	4(19)	1(2)	3(8)	
							_

AWRC = Alkaline Water Retention Capacity.

Lactic Acid SRC = Lactic Acid Solvent Retention Capacity

Quality data collected at Pioneer in Johnston, IA and the USDA-ARS Soft Wheat Quality Lab in Wooster, OH.

REPRODUCE LOCALLY. Include form number and edition date on al	Il reproductions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to de certificate is to be issued (7 U.S.C. confidential until the certificate is issued.	2421). The information is held
STATEMENT OF THE BASIS OF OWNERSHIP		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc.		
	XW02M	26R31 8/16
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (Include area code)
Crop Genetics Research & Development	, , , , , , , , , , , , , , , , , , ,	(765) 945-8313
Wheat Research	(765) 945-7906	(100) 040 0010
3850 N. 100 E.	7. PVPO NUMBER	
Windfall, IN 46076-9389		00400174
8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. If no, please exp	ain. X YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. b	oased company? If no, give name of	country. X YES NO
10. Is the applicant the original owner? X YES	NO If no, please answer on	e of the following:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Natio	
YES 11. Additional explanation on ownership (Trace ownership from original)	NO If no, give name of coun	
PLEASE NOTE:		·
Plant variety protection can only be afforded to the owners (not licen	sees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that practional of a country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals. Output Description Output Description Descriptio	person must be a U.S. national, nationa of the U.S. for the same genus and spe	al of a UPOV member country, or cices.
If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the compa country which affords similar protection	ny must be U.S. based, owned by n to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must	meet one of the above criteria.
The original breeder/owner may be the individual or company who di Act for definitions.	irected the final breeding. See Section	41(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055, including the time for reviewing the instructions, searching existing data sources, gathering	. The time required to complete this information col	lection is estimated to average 0.1 hour per response.
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and a marital or family status, political beliefs, parental status, or protected genetic information. (I communication of program information (Braille, large print, audiotape, etc.) should contact U	Not all prohibited bases apply to all programs.) Per	sons with disabilities who require alternative means for

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